STRUCTURE ACTIVITY TEAM REPORT ver. 04/98 [redacted]	
Case #: L-01-0546	**DCN:**
SAT Date: 9/28/01	**SAT Chair:** V. Nabholz
Submitter: Seppic, Inc.	

RECEIVED OPPT CBIC 2001 OCT -5 AM 8:20

Chemical Name:

D-Glucopyranose, homopolymer, 2-ethylhexyl glycosides

CAS RN:	**Trade Name:**
None	Simulsol AS48

Structure

[redacted]

Molecular Formula: [redacted]		
Molecular Wt. [redacted]	**WT%<500:** [redacted]	**WT%<1000:** [redacted]
MP:	**BP:** 439	**Eq. Wt:**
H2O Sol (g/L): 17.1 g/L, ☒	**V.P.**	<0.000001
Max. Prod. Volume (kg/yr): [redacted]	**Physical State:**	Liquid (est)

USE:

Wetting agent for use in water-based drilling muds. The [redacted] alkylpolyglucoside is less toxic to algae, invertebrates and fish than the longer chain alkylpolyglucosides (C12-14), a C12 ethylglucoside monoester and a linear C12-15 alcohol ethoxylate.
No references found.

Related Case Numbers	Case Role	Related Case Numbers	Case Role

Focus **Date:** OCT 4 2001 **Results:** GRANT

60020000078

STRUCTURE ACTIVITY TEAM REPORT 28 September 2001 [redacted]

CASE NUMBER: **L01-0546**

RELATED CASES: [redacted]

CONCLUSIONS/DISCUSSIONS

TYPE OF CONCERN:	HEALTH	ECOTOX
LEVEL:	1-2	2

KEYWORDS: AQUATOX-A,C, LUNG, IRR-E

SUMMARY OF ASSESSMENT:

FATE: [redacted]
liquid with mp < 20 °C (P)
log Kow = 1.1 for monomer (SRC);
S = 17 g/L at 20 °C (P) or dispersible (P), soluble (MSDS);
vp < 1.0E-6 mm Hg or torr at 25 °C (P);
bp = 440 °C (P);
H < 1.0E-8 (P);
log Koc = 1.0 (P);
log fish BCF = 0.13 (P);
POTW removal = 90 to 99% via biodegradation;
time for complete ultimate aerobic biodegradation = days to weeks;
sorption to soils and sediments = low;
PBT Potential: P1B1T1
*CEB FATE: migration to ground water = negligible to slow;

HEALTH: Absorption poor thru skin based on analogs; good thru lungs based on analogs; and moderate thru GI tract with digestion based on analogs;
expect digestion of the glucose in the GI tract;

concern for lung toxicity if inhaled and delayed irritation to eyes based on nonionic surfactant-alkyl ethoxylate analogs;

low-moderate concern for toxicity;
*CEB HEALTH: Exposures to humans: inhalation;

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

fish 96-h LC50	=>	40.0	P
daphnid 48-h LC50	=>	40.0	P
green algal 96-h EC50	=>	40.0	P
fish chronic value	=>	8.0	P
daphnid ChV	=>	8.0	P
algal ChV	=>	10.0	P

Predictions are based on SARs for nonionic surfactants-alkylethoxylates[redacted]; SAR chemical class = surfactant-nonionic-alkylethoxylate[redacted]; log Kow of the hydrophile

(one glucose) = the log Kow for [redacted]; pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <180.0 mg/L as CaCO3; and TOC <2.0 mg/L;
moderate concern for toxicity;
assessment factor = 10.0
concern concentration = 0.800
*CEB ECOTOX: All releases to water;

SAT Co-chairperson: Vince Nabholz, 260-1271

BIOLOGICAL TEST INFORMATION					
Case Number: **L-01-0546**	Date Received: **9-17-01**	Rev. Init: **ker**	OECD Status: **incomplete**	Page: 1 of 1	
Comments: **A journal article was enclosed to depict biodegradability, though no study was performed.**					
Other Data:	[]Ecotox	[ ]Fate	[X]Water solubility/Log P **soluble, MSDS, p17**		%ai

NCSAB SAT REPORT		CBI? (Y/N):
PMN: L-01-0546	CAS RN: None	
Chemical Name: D-Glucopyranose, homopolymer, 2-ethylhexyl glycosides	Analogs:	
	Production Volume: [redacted]	

Structure:

[redacted]

Use: Wetting agent for use in water-based drilling muds. The [redacted] alkylpolyglucoside is less toxic to algae, invertebrates and fish than the longer chain alkylpolyglucosides (C12-14), a C12 ethylglucoside monoester and a linear C12-15 alcohol ethoxylate.
No references found.

Formula: [redacted]	Eq Wt:		
Mol Weight: [redacted]	Wt%<500: [redacted]		Wt%<1000 [redacted]
MP:	BP:	439	VP: <0.000001
H2O Sol (g/L): 17.1 g/L, dispersible	Physical State: Liquid (est)		Log P: 0.53 [redacted]

Endpoint (mg/L)	Est. Value	Meas. Value	Comments
Fish 96-h	40		
Daphnid 48-h	40		
Algal 96-h	40		
Fish ChV	4.0		
Daphnid ChV	4.0		
Algal ChV	4.0		
BCF			

CHEMICAL CLASS:				SAR: Surf - non- [redacted]	
ECOTOX CONCERN	H	M	L	CONCERN CONCENTRATION	0.40
DATE 9/28/01				ASSESSOR:	

CHEMICAL: Unknown 10:20:15 09/27/:1

MOL WT :

MOL FOR:

SMILES :

ISOC-ID:

FRAG-ID:

H-COUNT:

Class	Type	Contribution Description	Comment	Value
[redacted]				
RESULT	v3.3	All fragments measured	ESTIMATE	0.528

Press ENTER to continue...

OPPT STRUCTURE ACTIVITY TEAM (SAT) MEETING DATE SEP 28 2001

	ATTENDEES	SIGNATURE
CHEMISTRY		
✓	Paul Bickart	
	Diana Darling	
	Rich Engler	
	Greg Fritz	
	Daniel Lin	
✓	Kathy Schechter	
ENVIRONMENTAL FATE		
	Bob Boethling	
	David Lynch	
✓	Gary Thom	
HEALTH		
	Katherine Anitole	
✓	Michael Cimino	
✓	Leonard Keifer	
	David Lai	
	Jim Murphy	
	Deborah Norris	
✓	Ronald Ward	
✓	Yin Tak Woo	
ENVIRONMENTAL EFFECTS		
✓	Gordon Cash	
	Vince Nabholz	
	Maggie Wilson	
SAT CHAIRPERSON/OTHER		
	Rebecca Jones	
	Leonard Keifer	
✓	Vince Nabholz	